

Amendments to the Claims:

The following claims replace all prior versions, and listings, of claims in the application.

Claims 1-5 (canceled)

6. (new) A wireless network for assigning time slots in a wireless communication of packets, comprising:

a plurality of transmitting and receiving terminals; and

a central station for determining a first subset of the transmitting terminals that intend to transmit packets to the receiving terminals and a second subset that includes the transmitting terminals that do not belong to the first subset; the central station determining a transmission order according to a decreasing number of the receiving terminals such that a transmitting terminals transmits first if said transmitting terminal intends to transmit the largest number of the receiving terminals; the central station sorting the receiving terminals that receive the packets from the first subset of the transmitting terminals into a first group which includes the receiving terminals that have been used as the transmitting terminals and into a second group which includes the remaining of the receiving terminals; the central station determining a receiving order in the first and second groups in accordance with the transmission order; the central station selecting the receiving terminal of the second group prior to the first group.

7. (new) The wireless network of claim 6, wherein the central station determines the transmission order of the transmitting terminals of the second subset in such a way that all the transmitting terminals are selected that have not previously been either a transmitting terminal or a receiving terminal, and then all the transmitting terminals are selected that have not previously been a receiving terminal, the transmitting terminals of the second subset transmitting either before or after the transmitting terminals of the first subset.

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8. (new) The wireless network of claim 6, wherein the central station sorts the transmitting terminals of the second subset into the transmission order in such a way that a transmitting terminal is not a receiving terminal in a preceding time slot and a following time slot, and a receiving terminal is not a transmitting terminal in the preceding time slot and the following time slot.